

Montreal, are fed almost exactly as my own ; but besides the 150 in town, he has 150 more cows at his farm near Cornwall, so that practically the average is from 300 cows. That from my own cow is I know a richer milk than is usually met with.

These examinations have been made, from time to time daily, during a period of seven months, and the average as given, is the result of the mean of these observations, they are recorded in a tabular form and compared with the analysis of milk as given by different authors, I have not taken milk from animals fed on grass, as my object has been rather to arrive at a standard of what milk should be as supplied during the winter months than of what is obtained during the summer. I am not prepared to say what will be the average for the summer months, when cows are fed upon grass at pasture but, even during the summer, numbers of cows are fed in stall upon hay. I purpose however, extending my observations during the coming summer and will give you the results so that if any alteration becomes necessary for a summer standard it may be made.

Considering that milk contains all the constituents necessary for the growth and development of the animal and that too in a very easily assimilated form, that it forms the principal food of children, and of sick persons, the only food of young infants, and that the due proportion of each ingredient is undoubtedly arranged by nature so as to be properly adjusted the one to the other, so as not to overload one portion of the body at the expense of the remainder it becomes of paramount importance, to the well being of children and the sick, that the proper equilibrium of food should be kept up.

I have divided the food contained in milk into four heads for the purpose of simplifying analysis and comparison, namely; water, butter, or fat, the heat producing or respiratory element of milk. Cazeine, Sugar, &c., which principally supply nutritious elements or elements used in digestion and last salts or earthy constituents used in the formation of the skeleton, and in the process of digestion.